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		DESIGNATED/ELECTE	ED OFFICE (DO/EO/US)	U.S. APPLICATION NO (IF KNOWN, SEE 37 CFR
		CONCERNING A FILIN	G UNDER 35 U.S.C. 371	09/701349
INTE		ONAL APPLICATION NO PCT/DE99/00918	INTERNATIONAL FILING DATE 25 March 1999	PRIORITY DATE CLAIMED 28 May 1998
	E OF IN	VENTION		20 1.44, 1990
RF C	CONN	NECTOR WITH CUTTING	EDGES	
APPL	ICANT	r(s) for do/eo/us		
Tom	Blon	ame, Jan Dessein, Marcus, So	chulte, Martin Strab, Edgard Acke, Joi	ris Dobbelaere and Bernard Houtteman
Appli	icant h	erewith submits to the United Stat	tes Designated/Elected Office (DO/EO/US) the	e following items and other information:
1.	$\boxtimes$		ems concerning a filing under 35 U.S.C. 371.	
2.			UENT submission of items concerning a filing	
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4.	$\boxtimes$			19th month from the earliest claimed priority date.
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		c. have not been made; ho	owever, the time limit for making such amendn	nents has NOT expired.
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9.		A translation of the amendments	to the claims under PCT Article 19 (35 U.S.C	. 371(c)(3)).
10.	$\boxtimes$	An oath or declaration of the inve	entor(s) (35 U.S.C. 371 (c)(4)) unexec	uted
11.	$\boxtimes$	A copy of the International Prelin	minary Examination Report (PCT/IPEA/409).	
12.	$\boxtimes$	A translation of the annexes to th (35 U.S.C. 371 (c)(5)).	e International Preliminary Examination Repo	ort under PCT Article 36
l It	tems 1	3 to 20 below concern document	(s) or information included:	
13.			ement under 37 CFR 1.97 and 1.98.	
14.			ording. A separate cover sheet in compliance	with 37 CFR 3.28 and 3.31 is included.
15.	$\bowtie$	A FIRST preliminary amendmen		
16.		A SECOND or SUBSEQUENT	preliminary amendment.	
17.		A substitute specification.		
18.		A change of power of attorney ar	nd/or address letter.	
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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	525 Rec'd PCT/PTO	28 NOV 2000
In re application of:	)	
Tom Blomme et al.	)	
Serial No.	)	
Filed: PCT/DE99/00918 March 25, 1999	) ) )	
For: RF CONNECTOR WITH CUTTING EDGE	) ES ) )	
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Washington DC 20231

Commissioner for Patents and Trademarks

Dear Sir:

#### PRELIMINARY AMENDMENT

In the above-mentioned PCT application, please accept the enclosed application under the national stage pursuant to 35 USC § 371 and amend the application as follows:

#### In the Specification:

On Page 6, line 25, after "conductor 8" add – "As also shown in Figure 5, the edges 2 have side faces 15 generally aligned along a vertical axis Y which forms a cable receiving area 16."

#### In the Drawings:

Please find attached a marked up copy of Figure 5 which applicants wish to replace the original PCT drawing.

#### In the Claims:

Delete present claims 1-6 and replace with new claims 1-6, as follows:

- 1. A connector for RF coaxial lines comprising two connector halves for establishing contact with the outer conductor of the RF coaxial line by means of an insulation displacement connection with at least one cutting edge arranged on each connector half, the cutting edges being arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor and, after penetration of the outer insulation of the RF coaxial line, establish a cold-welding type connection with the outer conductor on the end face and at least one adjacent side face thereof, and the cutting edges, in case of a change in distance of their end faces with respect to each other, slide on the outer conductor without a gap being formed between outer conductor and cutting edges.
- 2. The connector of claim 1, wherein the connector has a plurality of pairs of cutting edges arranged symmetrically with respect to a plane extending perpendicularly to the longitudinal axial direction of the outer conductor.
- 3. The connector of claim 1, wherein the connector has a plurality of pairs of cutting edges which are arranged symmetrically with respect to a plane extending along the longitudinal axial direction of the outer conductor and which, in case of a change in distance of their end faces with respect to each other, slide on the outer conductor without a gap being formed between outer conductor and cutting edges.
- 4. The connector of claim 1, wherein a base plate formed on its longitudinal side with lugs extending substantially perpendicularly thereto, with one cutting edge pair each being arranged substantially perpendicularly thereto and extending away therefrom towards the outer conductor.
- 5. The connector of claim 4, wherein at least two lugs each on both longitudinal sides of the base plate, said lugs having cutting edge pairs with different axial distances of the cutting edges.
- 6. The connector of claim 4, wherein two connector halves are arranged on the RF line, with the cutting edge pairs overlapping each other.

Add new claims 7-14 as follows:

- 7. An electrical contact for making connection to a coaxial cable outer conductor, where the coaxial cable is comprised of an inner signal conductor, an inner core surrounding the signal conductor, conductive shielding surrounding the inner core and outer insulation surrounding the inner core, the contact comprising at least one upstanding side edge portion formed by first and second portions, said first and second portions have side faces generally aligned along a vertical axis, and further comprising end faces which are axially staggered in the axial direction of the cable, the side faces being profiled for cutting through the outer insulation and the end faces trapping the conductive shielding therebetween.
- 8. The electrical contact of claim 7, wherein said first and second portions are defined as cutting walls which extend in general transverse relation to said axial direction.
- 9. The electrical contact of claim 8, wherein a second upstanding side edge portion extends on an opposite side, forming opposed side edge portions, having parallel side faces extending along parallel vertical axes.
- 10. The electrical contact of claim 9, wherein a plurality of opposed side edge portions generally extend along axial lengths of said contact.
- 11. The electrical contact of claim 7, wherein the contact is generally rectangular in cross-section.
- 12. The electrical contact of claim 11, wherein said at least one side edge portion is positioned on at least end of said contact.
- 13. The electrical contact of claim 12, wherein said at least one side edge portion is at both ends of said contact.

The electrical contact of claim 13, wherein said contact is defined by at least two lugs 14. axially spaced apart, wherein said side edge portions extend from said lugs.

#### **REMARKS**

Applicants respectfully request that the above preliminary amendment be entered, and that the fees due herewith are calculated using the new claims, not the claims of the PCT application.

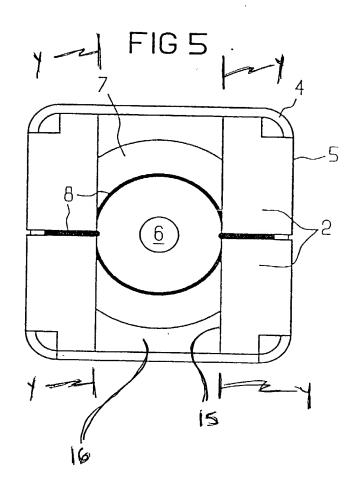
Respectfully submitted,

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#### PCT

#### WELTORGANISATION FUR GEISTIGES EIGENTUM Internationales Büro



(51) Internationale Patentklassifikation 6:

H01R 4/24, 9/05

(11) Internationale Veröffentlichungsnummer:

WO 99/62141

A1

(43) Internationales Veröffentlichungsdatum:

2. Dezember 1999 (02.12.99)

(21) Internationales Aktenzeichen:

PCT/DE99/00918

(22) Internationales Anmeldedatum:

25. März 1999 (25.03.99)

(30) Prioritätsdaten:

198 23 957.2

28. Mai 1998 (28.05.98)

DE

(81) Bestimmungsstaaten: JP, KR, US, europaisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

#### Veröffentlicht

Mit internationalem Recherchenbericht.

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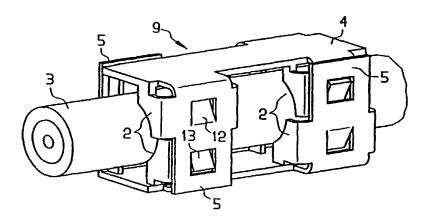
(74) Gemeinsamer Vertreter:

SIEMENS AKTIENGE-

SELLSCHAFT; Postfach 22 16 34, D-80506 München

(54) Title: HF CONNECTOR WITH CUTTING EDGES

(54) Bezeichnung: HF-STECKVERBINDER MIT VERSETZTEN SCHNEIDEN



#### (57) Abstract

The invention relates to a connector for HF lines for contacting the outer conductor (8) of the HF line (3) by means of an insulation displacement connector having at least one pair of opposite cutting edges (2), whereby the opposite cutting edges (2) are staggered in the longitudinal axial direction of the outer conductor (8).

#### (57) Zusammenfassung

Es ist ein Steckverbinder für HF-Leitungen zur Kontaktierung des Außenleiters (8) der HF-Leitung (3) mittels einer Schneidklemmverbindung mit mindestens einem Paar gegenüberliegender Schneiden (2) vorgesehen, bei dem die Schneiden (2) einander gegenüberliegend in Axiallängsrichtung des Außenleiters (8) versetzt angeordnet sind.

## 525 Rec'd PCT/PTO 28 NOV 2000

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#### Specification

#### RF Connector with Staggered Cutting Edges

The present invention relates to a connector for RF lines according to the generic clause of claim 1.

Connectors of the insulation displacement type are known which establish contact with a conductor via cutting edges, for example for tapping a signal from the conductor or for connecting two conductors to each other via such a connector. Such known connectors are used in all situations where it is necessary to provide an inexpensive solution for establishing an electrically conductive connection between connector and conductor.

With such a type of connection, cutting edges of metal quite generally penetrate the shield of the line until the cutting edges establish contact with the conductor. In this manner it is possible, for example, to establish an electrically conducting connection between two lines whose shields are penetrated by the cutting edges of the connector so that the two conductors are in electrical contact via the cutting edges.

Such connectors making use of the insulation displacement technique have proven efficient as they can be manufactured inexpensively, can rapidly be contacted with a conductor and moreover as a rule establish good electrical contact.

There has also become known a connector for RF lines in which a cutting edge pair is arranged such that the end faces of the two cutting edges are located exactly opposite each other, i.e. the cutting edge pair is disposed in one plane with respect to the RF line. Such RF lines are

, 0,7

employed in cases in which large amounts of data or signals are to be transferred, resulting in correspondingly high frequencies on the conductor.

A possible field of application for such RF lines is also automotive engineering in which large data quantities and wave signals are to be transferred for audio systems and multimedia applications from the fields of communication or navigation.

Due to the forces originating on the basis of the dynamics of the vehicle movement of a motor vehicle from vibrations and shocks, such a connector also is exposed to corresponding forces resulting in release of the contact between the cutting edges and the conductor. This danger of release of the connection between the cutting edges and the conductor still is increased considerably due to the high temperature fluctuations which often occur in motor vehicles, as these temperature fluctuations result in different degrees of expansion of the cutting edges and the conductor.

For example, due to differing coefficients of expansion of the conductor and the cutting edges, displacement of the cutting edges with respect to the conductor may occur, thereby changing the transition resistance and thus causing different potentials or erroneous contacting. The signal tapped from the conductor is distorted.

For eliminating the disadvantages outlined, it is thus the object of the invention to provide a connector which, while basically maintaining the utilization of the insulation displacement technique, permits unaltered contacting with the conductor also in case of temperature fluctuations and vibrations.

This object is met by the invention by the features indicated in claim 1. Advantageous development thereof are described in the further claims.

The present invention is based on the realization that the insulation displacement type connection between the cutting edges and the conductor establishes a cold-welding type connection and that this connection is disturbed in case of relative motion between the cutting edges and the conductor due to the thus arising gap between the cutting edges and the conductor. There is formed an air gap that changes the electrical resistance at the contact location between the cutting edges and the conductor. There are potential differences arising at the contact location.

According to the invention, a connector for RF lines, for establishing contact with the outer conductor of the RF line by way of an insulation displacement connection, is provided with at least one pair of opposite cutting edges, with the cutting edges being arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor. The RF line preferably is a coaxial cable.

The expression concerning the opposite and staggered arrangement of the cutting edges, in the sense of the invention, is to be understood to the effect that the cutting edges indeed are basically located opposite each other at the RF line, but that the cutting edges, contrary to the known connector, are not arranged end face on end face, but rather one after the other as seen in the longitudinal axial direction of the conductor, i.e. in spaced apart manner.

The effect achieved by this design is that the cutting edges, after penetration of the outer insulation of the RF line, establish a cold-welding type connection with

the outer conductor on the end face and at least one adjacent side face. The contact-establishing area between the cutting edges and the outer conductor is considerably increased thereby.

It is provided according to a further development of the invention that the connector has a plurality of cutting edge pairs arranged symmetrically with respect plane extending perpendicularly to the longitudinal axial direction of the outer conductor. The achieved hereby is that, when establishing the insulation displacement type connection, the RF line between the cutting edges of the connector is not acted upon by a tensile force extending in the longitudinal axial direction of the outer conductor and resulting in a shear effect of the line, but rather is slightly upset between the cutting edges.

The connector may have a plurality of cutting edge pairs arranged symmetrically with respect to a plane extending along the longitudinal axial direction of the outer conductor, such that a design of the connector that is mirror-symmetrical with respect to both planes is rendered possible so that only one half of the connector has to be manufactured and two halves thereof can be mated with each other via the cutting edges in order to thus establish the connector.

The increased contact area between the cutting edges and the conductor has the effect that the cutting edges, in case of a change in distance of their end faces with respect to each other, slide on the outer conductor without a gap being formed between outer conductor and cutting edges, as the sliding area is formed largely by the lateral area of the respective cutting edge.

The invention will be elucidated in the following by way of the drawings in which

- Fig. 1 shows a perspective view of a conventional connector;
- Fig. 2 shows a schematic side view of the connector of Fig. 1;
- Fig. 3 shows a perspective view of a connector according to the invention;
- Fig. 4 shows a schematic side view of the connector of Fig. 3; and
- Fig. 5 shows a front view illustrating the manner in which the outer conductor is clamped between the cutting edges of the connector.
- Fig. 1 and Fig 2 of the drawings illustrate a known connector 1 having cutting edges 2 arranged in confronting manner on the face sides thereof.

The connector 1 comprises a largely rectangular base plate 4 having respective lugs 5 formed on the longitudinal sides thereof, such that connector 1 has a U-shaped configuration as seen in front view. Both legs of the thus formed U-shaped arrangement are constituted by said lugs 5 which enclose the RF line 3.

As can be seen more clearly by way of drawing Fig. 2, the cutting edges 2 of connector 1 extend in one plane each, so that the outer conductor 8 clamped between the cutting edges 2 is gripped only by the respective end faces of cutting edges 2, so that, for example, in case of a change in distance between the cutting edges 2 due to temperature fluctuations, a gap is formed in the contact area between the cutting edges 2 and the outer conductor 8, with potential differences or erroneous contacting being the result thereof.

Figs. 3 and 4 of the drawings illustrate a connector 9 according to the invention, which is formed largely similar to the known connector 1 and thus has the advantage that it can be clampingly engaged using already existing tools.

A significant difference between the known connector according to Fig. 1 and Fig. 2 and the inventive connector 9 according to Fig. 3 and Fig. 4, however, resides in that - as clearly visible from Fig. 4 - the cutting edges 2 are not arranged with their end faces in confronting manner on top of each other, but rather extend in staggered manner in the longitudinal axial direction of the conductor 3.

From the base plate 4 of connector 9, there are extending lugs 5 for establishing a largely U-shaped configuration of connector 9, said lugs 5 enclosing the RF line 3. The cutting edges 2 are extending from the lugs 5 in an angle substantially perpendicular to the longitudinal axial direction of conductor 3 in the direction towards the inner conductor 6 (cf. Fig. 5) and in doing so penetrate the outer insulation 7 of conductor 3 and are clampingly and squeezingly engaged with the outer conductor 8.

As can be seen more clearly from Fig. 4, the axially staggered arrangement of the cutting edges 2 does not only result in contact between the respective end faces 10 of cutting edges 2 and the outer conductor 8, but also in face-to-face contact between the side faces 11 of the cutting edges 2 and the outer conductor 8.

This face-to-face contact has the effect that also in case of a change in distance between cutting edges 2 with respect to each other, there is no gap formed in the region of the contact area, but rather, the cutting edges 2 slide on outer conductor 8, which in case of a

coaxial cable consists of the shielding braid, and thus there is no change caused in the transition resistance.

As can easily be seen in addition from Fig. 3, connector 9, on the longitudinal sides of its base plate 4, has two lugs 5 each which have cutting edge pairs with different axial distances a, b of the cutting edges 2.

Connector 9 can be assembled from two halves, with one half made from a sheet metal member being assembled with another such half to form connector 9 by arranging the cutting edge pairs in mutually overlapping manner. To this end, the lugs 5 are provided with receiving means 12 adapted to be lockingly engaged by locking noses 13 of the respective other connector half. This construction is particularly advantageous in terms the requirement of an inexpensive design for mass production.

The described embodiment according to the present invention serves for elucidation, but not for restriction. Accordingly, the invention can be implemented in the form of other embodiments without leaving the scope of the invention.

The invention has been described by way of an an embodiment for connecting two coaxial lines. The scope of the invention of course comprises also an embodiment in which a plug (socket or pin plug) having the cutting edge arrangement according to the invention is connected to the conductor.

Furthermore, as regards features not elucidated in more detail hereinbefore, it is expressly referred to the claims and the drawings.

## 09/701349

### 525 Rec'd PCT/PTO 28 NOV 2603

K 56 021/6-St

#### Translation of Annex to the IPER

#### Patent Claims

- 1. A connector for RF coaxial lines comprising two connector halves for establishing contact with the outer conductor (8) of the RF coaxial line (3) by means of an insulation displacement connection with at least one cutting edge (2) arranged on each connector half, characterized in that the cutting edges (2) are arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor (8) and, after penetration of the outer insulation (7) of the RF coaxial line (3), establish a cold-welding type connection with the outer conductor (8) on the end face (10) and at least one adjacent side face (11) thereof, and the cutting edges, in case of a change in distance of their end faces (10) with respect to each other, slide on the outer conductor (8) without a gap being formed between outer conductor (8) and cutting edges (2).
- 2. The connector of claim 1, characterized in that the connector (9) has a plurality of pairs of cutting edges (2) arranged symmetrically with respect to a plane extending perpendicularly to the longitudinal axial direction of the outer conductor (8).
- 3. The connector of claim 1 or 2, characterized in that the connector (9) has a plurality of pairs of cutting edges (2) which are arranged symmetrically with respect to a plane extending along the longitudinal axial direction of the outer conductor (8) and which, in case of a change in distance of their end

faces (10) with respect to each other, slide on the outer conductor (8) without a gap being formed between outer conductor (8) and cutting edges (2).

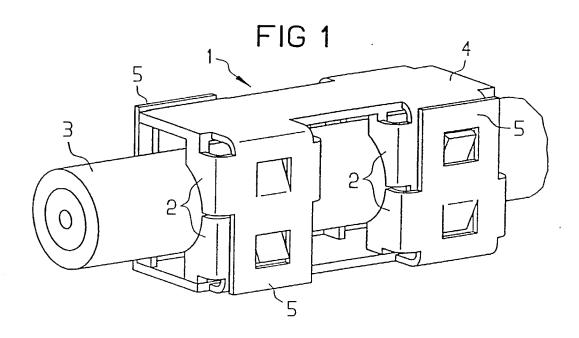
- 4. The connector of any of claims 1 to 3, characterized by a base plate (4) formed on its longitudinal side with lugs (5) extending substantially perpendicularly thereto, with one cutting edge pair each being arranged substantially perpendicularly thereto and extending away therefrom towards the outer conductor (8).
- 5. The connector of claim 4, characterized by at lest two lugs (5) each on both longitudinal sides of the base plate (4), said lugs (5) having cutting edge pairs with different axial distances (a, b) of the cutting edges (2).
- 6. The connector of claim 4 or 5, characterized in that two connector halves are arranged on the RF line (3), with the cutting edge pairs overlapping each other.

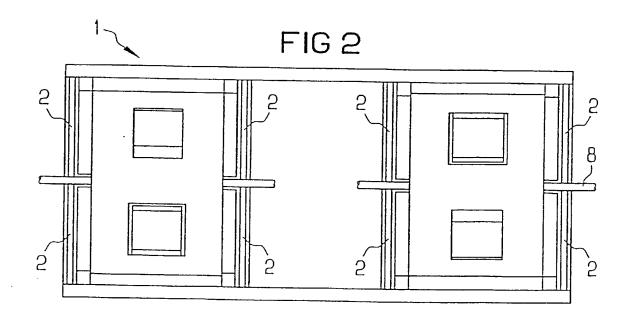
#### Abstract

The invention relates to a connector for RF lines for contacting the outer conductor (8) of the RF line (3) by means of an insulation displacement connector having at least one pair of opposite cutting edges (2), with the cutting edges (2) being arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor (8).

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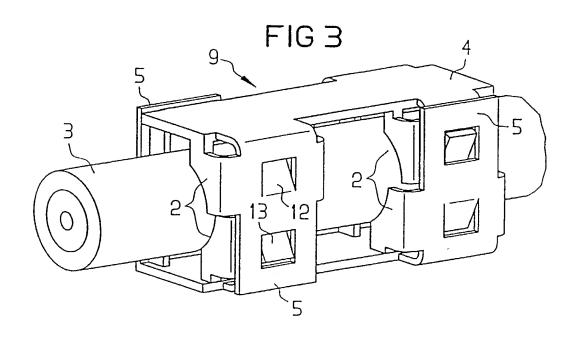
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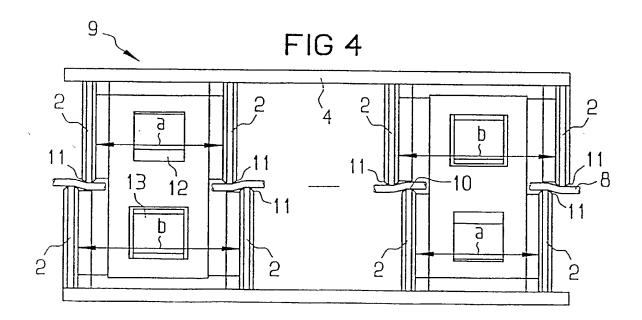




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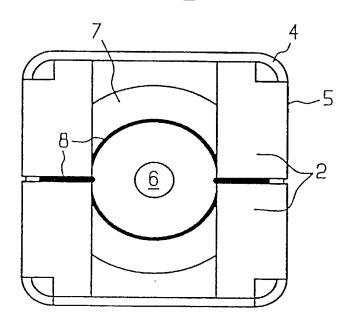


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FIG 5



far an Marion H. Shake + 41714470495

Docket No. KSN0007

## **Declaration and Power of Attorney For Patent Application**

#### **English Language Declaration**

Asa	below	named	inventor,	I here	by	declare	that:
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my residence, post	omce address and dilizen	ship are as stated below flext to h	ny name,		
first and joint invent		tor (if only one name is listed belo ted below) of the subject matter w tled			
the specification of	which				
(check one)					
is attached here	to.				
		as United States Application No	ites Application No. or PCT International		
Application Num	ber 09/701,349				
, and was amend	ed on November 28, 2000 i	y Preliminary Amendment			
		(if applicable)			
t hereby state that I including the claims	have reviewed and unde as amended by any ame	rstand the contents of the above indment referred to above.	identified specification,		
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Section 365(b) of a any PCT Internation listed below and have	ny foreign application(s) al application which design re also identified below, but or PCT International app	er Title 35, United States Code, for patent or inventor's certificate mated at least one country other to checking the box, any foreign a lication having a filing date before	e, or Section 365(a) of than the United States, application for patent or		
Prior Foreign Applica	ation(s)		Priority Not Claimed		
198 23 957.2	Germany	28 May 1998			
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(Number)	(Country)	(Day/Month/Year Filed)	_		
TO-SB-01 (8-95) (Modified)		(32.)			

Form P

Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

(Application Serial No.)	(Filing Date)	<del></del>
(Application Serial No.)	(Filing Date)	-
(Application Serial No.)	(Filing Date)	
hereby claim the benefit under :	35 U. S. C. Section 120 of	any United States application(s), or
Section 365(c) of any PCT Internations of a section subject matter of eactional United States or PCT International U.S.C. Section 112, I acknowledge Office all information known to ma	tional application designating ach of the claims of this application in the manner per the duty to disclose to the left to be material to patentabile between the filing date of	
section 365(c) of any PCT Internationsofar as the subject matter of extinited States or PCT International i.S.C. Section 112, I acknowledge office all information known to misection 1.56 which became available	tional application designating ach of the claims of this application in the manner per the duty to disclose to the left to be material to patentabile between the filing date of	the United States, listed below and, blication is not disclosed in the prior rovided by the first paragraph of 35 United States Patent and Trademark lilty as defined in Title 37, C. F. R.,

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(Filing Date)

(Filing Date)

Form PTO-SB-01 (6-95) (Modified)

(Application Serial No.)

(Application Serial No.)

Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

(Status) (patented, pending, abandoned)

(Status)

(patented, pending, abandoned)

	- uge ,
POWER OF ATTORNEY: As a named inventor, I hereby appoint the following agent(s) to prosecute this application and transact all business in the Patent aconnected therewith. (list name and registration number)	ng attorney(s) and/or and Trademark Office
Eric J. Groen, 32,230	
Gerard T. Gallagher, 39,679	•
Daniel Tychonievich, 41,358	•
Kévia R. Erdmau, 33,687	-
John F. Hoffman, 26,280	
Anthony Niewyk, 24,871	
Nancy G. Tinsley, 37,098	
Arthur R. Whale, 18,778	-
••	•
	_
Send Correspondence to: Eric J. Groen	
Baker & Daniels	
205 West Jefferson Blvd., Suite 250	
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Direct Telephone Calls to: (name and telephone number)	-
Eric J. Groen (574) 234-4149	
•	
Full name of sole or first inventor	
Jan Dessein	
Sole or first inventor's annature	. / Date / /
Resignice	18/03/02
Mccuwenlaan 14, B-8370 Blankerberge, Belgium BEX	
Citizenship	
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Mcowenlaan 14, B-8370 Blankerberge, Belgium	
Full name of second inventor, if any	
Marcus Schulte	
Second inventor's signature	Date
Residence	55.0
Am Centgericht 4, 64646 Heppenheim, Germany	98.8
Citizenship	

FE W VE

Form PTO-SS-01 (6-95) (Modified)

Post Office Address Am Centgericht 4, 64646 Heppenheim, Germany

8

Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCI

4	Page 4
Full name of third inventor, if any	
Martin Strab	
Third inventor's signature	
	Date
Residence	
Ottmarshauserstrasse 12 E, D-86356 Neusaess, Germany	
Citizenship	
DE	_
Post Office Address	
Ottmarshauserstrasse 12 E, D-86356 Neusaess, Germany	
Full name of fourth inventor, if any	<u> </u>
Edgard Acke	
Fourth augmor's compature	
<i>──<b>/</b><del> -</del>  </i>   <i> </i>   <i> </i>   <i> </i>   <i> </i>	10 Date
Residence Splethargestrasse 41, B-8020 Oostkamp, Belgium	19.02.02
Citizenship  BE	
	Í
Post Office Address Splethagestrasse 41 P. 2000 C	
Splethagestrasse 41, B-8020 Oostkamp, Belgium	
	1
Full name of fifth inventor, if any Joris Dobbelaere	
Fifth inventor's signature	Í
- Worker o signature	Date
Residence	
Wellingstrasse 59 B, B-8030 Beernem, Belgium	
Citizenship	
BE	
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7 A COST HELL HEIM, DELEGIER	
·	
Full name of sixth inventor, if any	
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Sixth inventor's signature	
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Residence	
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Form PTO-98-01 (6-96) (Modified)

Citizenship BE

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Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

Full name of seventh inventor, if any Tom Blomme	
Seventh inventor's signature	
9	Date
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T Vrije 46, B-8560 Moorsele, Belgium Citizenship	
BE	
Post Office Address	
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oth inventor's signature Sidence Zenship	Date
oth inventor's signature Sidence Cenship	Date

📆 A. . . 🔏

Docket No. KSN0007

2.

## Declaration and Power of Attorney For Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification of which			
(check one)		•	
☐ is attached hereto.  ☑ was filed on November Of Application Number Of States	9/701,349	as United States Application No	. or PCT International
and was amended on	November 28, 200	00 by Preliminary Amendment (if applicable)	
I acknowledge the duty to known to me to be mate Section 1.56.  I hereby claim foreign pr Section 365(b) of any for any PCT International applisted below and have also	nended by any a disclose to the erial to patentab fiority benefits u eign application dication which de didentified below	inderstand the contents of the above imendment referred to above.  United States Patent and Trademark ility as defined in Title 37, Code of order Title 35, United States Code, (s) for patent or inventor's certificate esignated at least one country other to, by checking the box, any foreign a	k Office all information f Federal Regulations, Section 119(a)-(d) or e, or Section 365(a) of than the United States, pplication for patent or
inventor's certificate or PC on which priority is claimed	T Intemational a d.	application having a filing date before	that of the application
Prior Foreign Application(s	5)		Priority Not Claimed
198 23 957.2	Germany	28 May 1998	
(Number)	(Country)	(Day/Month/Year Filed)	_
(Number)	(Country)	(Day/Month/Year Filed)	
(Number)	(Country)	(Day/Month/Year Filed)	

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Section 365(c) of any PCT Internations resofar as the subject matter of ear United States or PCT International U.S.C. Section 112, I acknowledge Office all information known to m	tional application designating ach of the claims of this ap I application in the manner p e the duty to disclose to the e to be material to patentabole between the filing date of	the United States, listed below an plication is not disclosed in the pri provided by the first paragraph of 3 United States Patent and Tradema illity as defined in Title 37, C. F. F
Section 365(c) of any PCT Internationsofar as the subject matter of explicitly states or PCT International J.S.C. Section 112, I acknowledge office all information known to make the section 1.56 which became available PCT International filing date of the section 1.56 which became available of the pct international filing date.	tional application designating ach of the claims of this ap I application in the manner p e the duty to disclose to the e to be material to patentals ble between the filing date of its application:	any United States application(s), the United States, listed below an plication is not disclosed in the priorovided by the first paragraph of 3 United States Patent and Tradema illity as defined in Title 37, C. F. F. the prior application and the nation   pending  (Status)  (patented, pending, abandoned)

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(Filing Date)

(Application Serial No.)

(Status) (patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Eric J. Groen, 32,230 Gerard T. Gallagher, 39,679 Daniel Tychonievich, 41,358 Kevin R. Erdman, 33,687 John F. Hoffman, 26,280 Anthony Niewyk, 24,871 Nancy G. Tinsley, 37,098 Arthur R. Whale, 18,778

Send Correspondence to: Eric J. Groen

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Direct Telephone Calls to: (name and telephone number)

Eric J. Groen (574) 234-4149

Full name of sole or first inventor  Jan Dessein	
Sole or first inventor's signature	Date
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Citizenship BE	
Post Office Address Mecwenlaan 14, B-8370 Blankerberge, Belgium	

$\infty$	Full name of second inventor, if any  Marcus Schulte	
	Second inventor's signature  Concrete Charle  Residence	20th Feb Loo
1	Am Centgericht 4, 64646 Heppenheim, Germany コミス	
	Citizenship	
	DE	
Î	Post Office Address Am Centgericht 4, 64646 Heppenheim, Germany	

Form PTO-SB-01 (6-95) (Modified)

Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

full name of third inventor, if any  Martin Strab	
Third inventor's signature	Date
Residence Ottmarshauserstrasse 12 E, D-86356 Neusacss, Germany	
Citizenship DE	
Post Office Address Ottmarshauserstrasse 12 E, D-86356 Neusaess, Germany	
ull name of fourth inventor, if any	
ourth inventor's signature	Date
residence plethargestrasse 41, B-8020 Oostkamp, Belgium	
itizenship BE	
ost Office Address Splethagestrasse 41, B-8020 Oostkamp, Belgium	
full name of fifth inventor, if any foris Dobbelaere	
offs Dobbetaere ifth inventor's signature	Date
Residence Vellingstrassc 59 B, B-8030 Beernem, Belgium	
Citizenship BE	
ost Office Address Wellingstrasse 59 B, B-8030 Beernem, Belgium	
ull name of sixth inventor, if any sernard Houtteman	
ixth inventor's signature	Date
esidence szaleastrasse 10, B-8020 Oostkamp, Belgium	
itizenship IE ost Office Address	

Full name of seventh inventor, if any Tom Blomme	
Seventh inventor's signature	Date
	Uaţe
Residence T Vrije 46, B-8560 Moorsele, Belgium	
Citizenship BE	
Post Office Address T Vrige 46 Moorsele, Belgium	
<sup>z</sup> ull name of eighth inventor, if	
Eighth inventor's signature	Oate
Residence	
Citizenship	
Post Office Address	
full name of ninth inventor, if any	
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enth inventor's signature tesidence	Date
enth inventor's signature tesidence citizenship	Date

- F

Docket No. KSN0007

3.

## **Declaration and Power of Attorney For Patent Application English Language Declaration**

As a below named inventor, I hereby declare that.

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for

which a patent is soug	nt on the invention $\epsilon$	entitled	
the specification of whi	ich		
(check one)			
☐ is attached hereto.			
☑ was filed on Nove	nber 28, 2000	as United States Application No	or PCT International
Application Numbe	r 09/701,349	• •	
and was amended	on November 28, 200	00 by Preliminary Amendment	•
		(if applicable)	
I hereby state that I ha including the claims, as	ive reviewed and ur s amended by any a	iderstand the contents of the above mendment referred to above.	identified specification,
I acknowledge the duty known to me to be m Section 1.56.	y to disclose to the naterial to patentabl	United States Patent and Trademar lity as defined in Title 37, Code of	k Office all information f Federal Regulations,
any PCT International a listed below and have a	foreign application( application which de also identified below PCT International a	nder Title 35, United States Code, s) for patent or inventor's certificate esignated at least one country other to, by checking the box, any foreign a application having a filing date before	e, or Section 365(a) of than the United States, polication for patent or
Prior Foreign Application	n(s)		Priority Not Claimed
198 23 957.2	Germany	28 May 1998	
(Number)	(Country)	(Day/Month/Year Filed)	<u>u</u>
(Number)	(Country)	(C) (M) (1) (C)	
	(Country)	(Day/Month/Year Filed)	
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were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Eric J. Groen, 32,230 Gerard T. Gallagher, 39,679 Daniel Tychonievich, 41,358 Kevin R. Erdman, 33,687 John F. Hoffman, 26,280 Anthony Niewyk, 24,871 Nancy G. Tinsley, 37,098 Arthur R. Whale, 18,778

Send Correspondence to: Eric J. Groen

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Eric J. Groen (574) 234-4149

Full name of sole or first inventor  Jan Dessein	
Sole or first inventor's signature	Date
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Citizenship BE	······································
Post Office Address Mccwenlaan 14, B-8370 Blankerberge, Belgium	

Full name of second inventor, if any Marcus Schulte	
Second inventor's signature	Date
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Citizenship	
Post Office Address	
Am Centgericht 4, 64646 Heppenheim, Germany	

Martin Strab  Third inventor's signature	Date - 36.62.03
Residence Ottmarshauserstrasse 12 E, D-86356 Neusaess, Germany	₹6,02.02)
Citizenship DE	
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Edgard Acke Fourth inventor's signature	Date
Residence Splethargestrasse 41, B-8020 Oostkamp, Belgium	
Citizenship BE	
Post Office Address Splethagestrasse 41, B-8020 Oostkamp, Belgium	
Full name of fifth inventor, if any Joris Dobbelaere  Fifth Inventor's signature	Date
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Full name of sixth inventor, if any Bernard Houtteman	
Sixth inventor's signature	Date
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Citizenship BE	
Post Office Address Azaleastrasse 10, B-8020 Oostkamp, Belgium	

Tom Blomme	
Seventh inventor's signature	Date
Residence	
T Vrije 46, B-8560 Moorsele, Belgium Citizenship	
BE Citizenship	
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1 Vilge 40 Mootsele, Beigium	
Full name of eighth inventor, if	
Elghth inventor's signature	Date
	Date
Residence	
Citizenship	
Post Office Address	
Full name of ninth inventor, if any	
Ninth inventor's signature	Date
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Citizenship  Post Office Address  Full name of tenth inventor, if any	Date
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Citizenship  Post Office Address  Full name of tenth inventor, if any  Tenth inventor's signature  Residence  Citizenship	
Citizenship	

Docket No. KSN0007

4.

## Declaration and Power of Attorney For Patent Application **English Language Declaration**

As a below named inventor, I hereby declare that

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification of	t which		
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☐ is attached her	reto.		
☑ was filed on N	***	as United States Application No	o. or PCT Internationa
• •	mber 09/701,349		
and was amend	ded on November 28, 20	000 by Preliminary Amendment	
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I acknowledge the	duty to disclose to the		
known to me to be Section 1.56.  I hereby claim for Section 365(b) of any PCT Internation listed below and hereby section are to be section and hereby section and hereby section and hereby section are to be section and hereby section and hereby section are to be section 1.56.	reign priority benefits of any foreign application anal application which d ave also identified belo e or PCT International	e United States Patent and Trademar bility as defined in Title 37, Code of under Title 35, United States Code, n(s) for patent or inventor's certificate designated at least one country other to w, by checking the box, any foreign a application having a filing date before	f Federal Regulations Section 119(a)-(d) of e, or Section 365(a) of than the United States application for patent of
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(Application Senal No.)	(Filing Date)	
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(Application Serial No.)	(Filing Date)	
Section 365(c) of any PCT Internance insofar as the subject matter of e United States or PCT International U.S.C. Section 112, I acknowledgo Dffice all information known to material section 112.	tional application designating ach of the claims of this application in the manner part to the the duty to disclose to the to be material to patentable.	plication is not disclosed in the proprovided by the first paragraph of United States Patent and Trademaility as defined in Title 37, C. F.
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South Bend, IN 46601

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Eric J. Groen (574) 234-4149

Full name of sole or first inventor  Jan Dessein		
Sole or first inventor's signature	/	Date
Residence Meeuwenlaan 14, B-8370 Blankerberge, Belgium Citizenship BE		
Post Office Address Mceweniaan 14, B-8370 Blankerberge, Belgium		

	Full name of second inventor, if any Marcus Schulte	
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Ninth inventor's signature	Date
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Post Office Address	
Full name of tenth inventor, if any	
Tenth inventor's signature	Date
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Citizenship	
Post Office Address	

Docket	No.
KSNO	007

# Declaration and Power of Attorney For Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification o	of which		
(check one)			
☐ is attached he	reto.		
🛭 was filed on	November 28, 2000	as United States Application No	or PCT International
Application Nu	ımber 09/701,349		
and was amer	nded on November 28, 2	000 by Preliminary Amendment	
		(if applicable)	-
Section 1.56.  I hereby claim fo Section 365(b) of any PCT International listed below and h	be material to patental reign priority benefits any foreign application which cause also identified belo	bility as defined in Title 37, Code of under Title 35, United States Code, n(s) for patent or inventor's certificate designated at least one country other tow, by checking the box, any foreign application basing a filing data before	f Federal Regulations Section 119(a)-(d) o e, or Section 365(a) o than the United States pplication for patent o
Section 1.56.  I hereby claim fo Section 365(b) of any PCT International listed below and h	be material to patental reign priority benefits any foreign application which cave also identified belote or PCT International claimed.	bility as defined in Title 37, Code of under Title 35, United States Code, n(s) for patent or inventor's certificate designated at least one country other t	f Federal Regulations Section 119(a)-(d) o e, or Section 365(a) o than the United States pplication for patent o
Section 1.56.  I hereby claim fo Section 365(b) of any PCT International listed below and hinventor's certification which priority is Prior Foreign Appliance.	reign priority benefits any foreign application which can application which can also identified below the or PCT International claimed.  Germany	bility as defined in Title 37, Code of under Title 35, United States Code, n(s) for patent or inventor's certificate designated at least one country other tow, by checking the box, any foreign a	f Federal Regulations Section 119(a)-(d) o e, or Section 365(a) o than the United States pplication for patent o e that of the application
Section 1.56.  I hereby claim fo Section 365(b) of any PCT International listed below and hinventor's certification which priority is Prior Foreign Appli	be material to patental reign priority benefits any foreign application which cave also identified belowed to PCT International claimed.	bility as defined in Title 37, Code of under Title 35, United States Code, n(s) for patent or inventor's certificate designated at least one country other tow, by checking the box, any foreign a application having a filing date before	Federal Regulations Section 119(a)-(d) of the Section 365(a) of the United States of the Explication for patent of the Explication Priority Not Claimed
Section 1.56.  I hereby claim fo Section 365(b) of any PCT International listed below and hinventor's certification which priority is Prior Foreign Appliance.	reign priority benefits any foreign application which can application which can also identified below the or PCT International claimed.  Germany	bility as defined in Title 37, Code of under Title 35, United States Code, n(s) for patent or inventor's certificate designated at least one country other tow, by checking the box, any foreign a application having a filing date before	Federal Regulations Section 119(a)-(d) of the control of the contr

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Section 365(c) of any PCT Interna insofar as the subject matter of e United States or PCT Internationa U.S.C. Section 112, I acknowledg Office all information known to m	tional application designating t ach of the claims of this appli I application in the manner pro e the duty to disclose to the U e to be material to patentabili ble between the filing date of the	iny United States application(s), or the United States, listed below and, ication is not disclosed in the prior ovided by the first paragraph of 35 inited States Patent and Trademark ty as defined in Title 37, C. F. R., ne prior application and the national
PCT/DE99/00918	25 March 1999	pending
(Application Serial No.)	(Filing Date)	(Status)

(Application Serial No.)

(Filing Date)

(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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Eighth inventor's signature	Date
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Citizenship	
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Full name of ninth inventor if any	
	Date
Ninth inventor's signature	- Date
Ninth inventor's signature  Residence	Date .
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Ninth inventor's signature  Residence  Citizenship	
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